

### 203.17 - Thermal Resistance and Thermal Conductivity Properties of Glass, Silica, and Polystyrene (solid forms)

For further information see [SP 260-130](#)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Temperature Range (K)	Thermal Resistance at 293 K ( $\text{m}^2 \cdot \text{K} \cdot \text{W}^{-1}$ )
1449	Thermal Resistance - Fumed Silica Board	each	297.1	1.2
1450d	Thermal Conductivity, Fibrous Glass Board	each	280 to 340	0.78*
1452	Thermal Resistance - Fibrous Glass Blanket for High Precision Measurements	each	297.1	0.6
1453	Thermal Resistance Expanded Polystyrene Board	each	285 to 310	0.4
1459	Thermal Resistance - Fumed Silica Board	each	297.1	1.2

\*SRM 1450d is certified for thermal conductivity between 280 K to 340 K. Thermal resistance at 293 K is listed here to facilitate comparisons to related materials.

Certified values are normal font.

Reference values are italicized.

Values in parentheses are for information only.